

IN THE CLAIMS

The claims are as follows:

1. (Previously Presented) A wireless terminal comprising a ground conductor housing having predetermined dimensions and a transceiver housed by said ground conductor housing and coupled to an antenna feed,

wherein the antenna feed is coupled to the ground conductor housing in a predetermined manner such that a change in said predetermined dimensions of said ground conductor housing results in a change in the bandwidth of said wireless terminal,

wherein said ground conductor housing is coupled to said antenna feed via a parallel plate capacitor formed by a plate and a surface of said ground conductor housing, said plate having a non-resonant length substantially less than a wavelength.
2. (Previously Presented) A terminal as claimed in claim 1, wherein the antenna feed is coupled to the ground conductor housing via a capacitor.
3. (Previously Presented) A terminal as claimed in claim 2, wherein the capacitor is a parallel plate capacitor formed by a conducting plate and a portion of the ground conductor housing.
4. (Previously Presented) A terminal as claimed in claim 1, wherein the antenna feed is coupled to the ground conductor housing by capacitance between an inductive element and the ground conductor housing.

5. (Previously Presented) A terminal as claimed in claim 1, wherein a slot is provided in the ground conductor housing.

6. (Previously Presented) A terminal as claimed in claim 5, wherein the slot is parallel to the major axis of the terminal.

7. (Previously Presented) A terminal as claimed in claim 1, wherein the ground conductor housing is a handset case.

8. (Previously Presented) A terminal as claimed in claim 1, wherein the ground conductor housing is a printed circuit board ground plane.

9. (Previously Presented) A terminal as claimed in claim 1, wherein a matching network is provided between the transceiver and the antenna feed.

10. (Previously Presented) A method for changing the bandwidth of a wireless terminal, said method comprising the steps of:

providing said wireless terminal with a ground conductor housing having predetermined dimensions and housing a transceiver coupled to an antenna feed;

coupling the antenna feed to the ground conductor housing via a parallel plate capacitor formed by a plate and a surface of said ground conductor housing, said plate having a non-resonant length substantially less than a wavelength. ; and

changing said predetermined dimensions of said ground conductor housing for changing the bandwidth of said wireless terminal.

11. (Previously Presented) The method as claimed in claim 10, wherein the step of coupling the antenna feed comprises the step of coupling the antenna feed to the ground conductor housing via a capacitor.

12. (Previously Presented) The method as claimed in claim 11, wherein the capacitor is a parallel plate capacitor formed by a conducting plate and a portion of the ground conductor housing.

13. (Previously Presented) The method as claimed in claim 10, wherein the step of coupling the antenna feed comprises the step of coupling the antenna feed to the ground conductor housing by capacitance between an inductive element and the ground conductor housing.

14. (Previously Presented) The method as claimed in claim 10, further comprising the step of providing a slot in the ground conductor housing.

15. (Previously Presented) The method as claimed in claim 14, wherein the slot is parallel to the major axis of the terminal.

16. (Previously Presented) The method as claimed in claim 10, wherein the ground conductor housing is a handset case.

17. (Previously Presented) The method as claimed in claim 10, wherein the ground conductor housing is a printed circuit board ground plane.

18. (Previously Presented) The method as claimed in claim 10, further comprising the step of providing a matching network between the transceiver and the antenna feed.

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